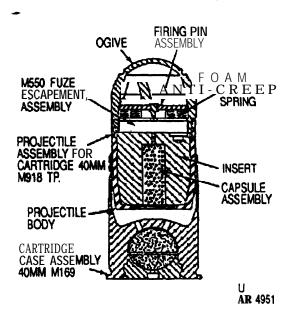
CARTRIDGE, 40-MILLIMETER PRACTICE, M918



Type Classification:

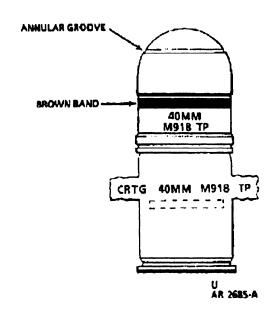
Std LCC-A MSR 01866003

Use:

This cartridge is a target practice round designed to simulate the M430 Cartridge in appearance and ballistics. It is fired from the 40mm Grenade Machine Gun MK19 Mod 3. It is also used in the cartridge, subcaliber ammunition, training (CSAT): M970 to simulate the loading and firing of large caliber ammunition.

Description:

This cartridge is a fixed round of ammunition consisting of a one-piece steel projectile body which is fitted to a cartridge case assembly An aluminum ogive, which contains a firing pin plate assembly, a cellular foam anticreep spring, and the standard M550 fuze escapement assembly is threaded to the projectile body An aluminum insert which contains a flash charge chamber is enclosed in the projectile body A plastic container contains the flash charge chamber which contains one gram of flash charge composition. The projectile assembly is press-fitted into a cartridge case. The case is a hollow bichambered aluminum cylinder with a metal closing plug crimped into the open well of the propellant chamber cartridge base. The propellant in the chamber, which contains the propelling charge, has vent holes in the top and is sealed at the bottom by a closing plug. A percussion primer is crimped into the center opening in the closing plug. The propellant chamber acts as high pressure chamber,



and the upper hollow cavity in the case acts as a low-pressure chamber.

Functioning:

The weapon firing pin strikes the percussion primer igniting the propelling charge. Pressure, generated by the burning propellant in the high-pressure chamber, forces the expanding gases through the vent holes into the low-pressure shapper and prepals the projectile for pressure chamber and propels the projectile forward. The rotating band around the projectile engages the rifling in the launcher tube imparting a spin of 12,000 rpm to the projectile. The expanding gases in the low-pressure chamber force the projectile through the barrel with a velocity of 242 meters per second. When the projectile is fixed exthack force access the force and the force a jectile is fired, setback force causes the fuze setback pin to move rearward from the fuze rotor. The rotor is held out of line with the fuze detonator by the setback pin and fuze centrifugal lock which engages the gear teeth of **the fuze** rotor. **When** the projectile attains sufficient spin, the centrifugal lock releases the rotor and arming begins. The rotor begins rotation toward the center of the projectile. The rotor gear engaged with the pinion shaft delays arming of the fuze. After the projectile has traveled 18 to 30 meters from the launcher tube, the rotor is locked in the armed position and the fuze is armed. Upon impact with the target, the entire escapement moves forward compressing the cellular foam spring and driving the detonator into the firing pin, which in turn flashes through the small hole of the **insert** and ignites the flash powder, Gases generated by the burning powder are concentrated upon the base of the-projectile body causing it to rupture and producing a flash, smoke and a loud report.

Rupture begins at the very center of the projec-		U.S. Army Pack:	
tile base forming hinged petals. Tabulated Data:		*Packing •	50 rounds in linked belt
NSN 1310-01-218-7070 • U.S. Army Pack NSN 1310-01-218-7069 • U.S. Marine Corps Pack • NSN 1310-01-283-8652 • M970 Pack NSN 1310-01-317-5948 • PA-120 Pack		*Packing Box: Weight Dimensions Cube Packing drawing number Packing, PA-120	53 lb - 26-3/8 x 16-1/4 x 6-3/16 in.
Complete round:	Tanget nace		32 rounds in linked belt
Weight Length Weapons used with	tice 0.76 lb 4.415 in, MK19, Mod 3, 40mm gre- nade machine gun, M970	Packing Box: Weight Dimensions Cube Packing drawing number PA-120 metal container	x 6.36 in.
Projectile:	ČSAT	*Packing	10 rounds in
Body material	draw stool	"Packing Box:	linked belt
Color	Blue w/black markings brown band and blue ogive	Weight Dimensions	14-19/32 x
Filler and weight	composition,	CubePacking drawing number	1.3 cu ft 9362543
Fuse	1 g M550 escapement	*NOTE: See DOD Consolidated Catalog for complete packing dat NSN's.	
Propelling charge: Cartridge case Propellant Primer	M169 M2, 4.2 g Percussion, FED 215	Shipping and Storage Data: Hazard class/division and storage compatibility groupUNO serial number	(04) 1.4 C
Performance: Maximum range	2,200 m	DOT class	Class C
Muzzle velocity	244 mps (795 fps)		CARTRIDGE, PRACTICE AMMUNI- TION
Temperature Limits:		DODACCartridge drawing number	1 310-B584 9399372
Firing: Lower limit Upper limit Storage: Lower limit Upper limit	+110°F (+43.3°C) -30°F	References: SB 700-20 DOD Consolidated Ammunition TM 9-1010-230-10 TM 9-1010-230-23&P TM 9-1300-251-20 TM 9-1300-251-34	Catalog